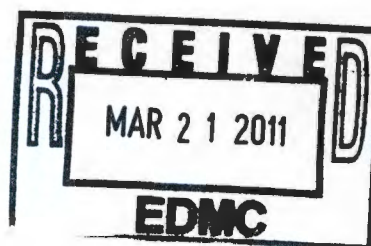


Office of River Protection
Consent Decree 08-5085-FVS

Project Summary Report

March 22, 2011



Office of River Protection

Consent Decree 08-5085-FVS

Project Summary Report

March 22, 2011

9:00 a.m. – 12:00 p.m.

Page	Topic	Leads
1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon
4	SST Retrieval and Closure - D-00B-01, -02, -03, -04 - TWRWP Status	Chris Kemp / Jeff Lyon
7	WTP - Immobilization Plant Project - D-00A-06, D-00A-17, D-00A-01	Wahed Abdul / Jeff Trent / Gary Olsen / Dan McDonald
10	WTP Pretreatment (PT) Facility - D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
13	High-Level Waste (HLW) Facility - D-00A-20, -21, 02, 03	Jeff Trent / Dan McDonald
16	Low-Activity Waste (LAW) Facility - D-00A-07, -08, -09	Gary Olsen / Dan McDonald
19	Analytical Laboratory (LAB) - D-00A-005	
21	Balance of Facilities (BOF) - D-00A-12	

Fiscal Year 2011 Consent Decree Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00A-20	Complete Construction of Structural Steel to Elevation 14' in HLW Facility	12/31/10	01/13/10										
D-00C-02D	Submit to Ecology and Oregon Monthly Summary Reports	02/28/11	2/25/11										
D-00C-02E	Submit to Ecology and Oregon Monthly Summary Reports	03/31/11		X									
**D-00C-02F	Submit to Ecology and Oregon Monthly Summary Reports	04/30/11		X									
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.													
D-00C-01C	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/11		X									

Fiscal Year 2012 Consent Decree Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11		X									
**D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11		X									
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.													
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12		X									
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		X									

Reports

D-00C-02 series, Submit to Ecology & State of Oregon Monthly Summary Report Documenting Progress During Previous Month, Due: End of Each Month, Status: On Schedule

D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Due: 9/25/2013, Status: On Schedule

D-006-00-A, Meet Approximately Every Three Years After Entry of Decree to review requirements of the Consent Decree, Due: 10/25/2013, Status: On Schedule

SST Retrieval and Closure Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 9/30/2014, Status: On Schedule

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD

Pursuant to the requirement at IV(B)(5) of the Consent Decree (CD) DOE must submit to Ecology a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix "C", Part 1, of the CD. Tanks currently in retrieval status are C-108, C-109, C-110, C-104, and C-111.

D-00B-02, Advise Ecology of the 9 SST's from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: On Schedule. ORP and Ecology began meeting on December 13, 2010, to discuss the selection of the next nine tanks to be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held January 18, 2011. The next meeting is scheduled for February 3, 2011, to discuss 242-A Evaporator.

D-00B-03, Initiate Startup Retrieval in At Least 5 of 9 SSTs in D-00B-02, Due: 12/31/2017, Status: On Schedule

D-00B-04, Complete Retrieval of Tank Wastes from the 9 SSTs in D-00B-02, Due: 9/30/2022, Status: On Schedule

D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: TBD

Significant Past Accomplishments:

- Completed installation of concrete pad around the C-107 new large riser.
- Initiated Site Preparations for C-107 electrical upgrades and control trailer installation.
- Continued testing of a MARS sluice educator system at Columbia Energy in Pasco and continued testing of the MARS sluicing system at Columbia Test Center (CTC) in Richland.
- Continued design activities for C-112 sluicing system.
- Initiated design activities for C-101 sluicing system.
- Continued construction activities for C-108 equipment installation for Hard Heel Removal.

Significant Planned Activities in the Next Six Months:

- Obtain C-109 heel samples.
- Complete testing of the MARS arm.
- Complete construction/installation of MARs with a sluicing end-effector for C-107 retrieval.
- Initiate construction of C-108 hard heel retrieval system, and start up of retrieval activities.

- Complete C-112 design, initiate long lead procurements and initiate legacy equipment removals.
- Operate hydraulic arm Articulating Mast System (AMS) into C-104 to aid removal of obstruction underneath slurry pump and resume and complete C-104 retrieval.
- Finish testing of the MARS with the vacuum educator.

Issues:

C-106 Closure Plan approval and SST radiological Categorical Notice of Construction (NOC) Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and associated Record of Decision (ROD); forecast completion for the final EIS ROD is in the Winter of 2011.

TWRWP Status

Tank	TWRWP	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520	MRS (per 10/7/10 agreement, to be Modified Sluicing)	-	-
C-102	RPP-22393	Modified Sluicing	MS-ITV	-
C-103	RPP-21895	Retrieval Completed		
C-104	RPP-22393	Modified Sluicing	MS-ITV	-
C-105	RPP-22520	MRS	-	-
C-106		Retrieval Completed		
C-107	RPP-22393	MARS-S		
C-108	RPP-22393	Modified Sluicing	Chemical Dissolution	MS-ITV
C-109	RPP-21895	Modified Sluicing	MS-ITV	-
C-110	RPP-33116	Modified Sluicing	-	-
C-111	RPP-37739	Modified Sluicing	-	-
C-112	RPP-22393	Modified Sluicing	MS-ITV	-

Issues:

- Ecology requested a schedule for any future TWRWP changes.
- DOE wants to issue a revised Tank Retrieval Technology Roadmap Document and ORP want to resolve 2nd and 3rd technology discussion.
- ORP wants to reopen discussion on end of retrieval discussions that include cost benefit analysis and how the finish of a retrieval decision occurs.

Hanford Waste Treatment and Immobilization Plant (WTP) Project

D-00A-06, Complete Methods Validations, Due: 12/31/2017, Status: On Schedule

D-00A-17, Hot Start of Waste Treatment Plant, Due: 12/31/2019, Status: On Schedule

D-00A-01, Achieve Initial Plant Operations for WTP, Due: 12/31/2022, Status: On Schedule

There are about 3,200 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 1,060 craft, 540 non-manual, and about 195 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through January 2011 is 57%, design and engineering is 79% complete, procurement is 60% complete and construction is 54% complete.

In January 2011, the facility percent complete values for Design/Engineering decreased. This decrease in values was tied to the incorporation of the BNI Forecast Update Four EAC. This resulted in an increase in the facility engineering budget, which has correspondingly reduced the to-date percent complete values.

The overall WTP Project Schedule Variance (SV) in December was a positive \$1.8M, the Cost Variance (CV) was a positive (\$6.4M). Both the positive cost and schedule variances came primarily from the Construction and Plant Equipment control accounts.

Following is the status through the end of January for current project issues:

Significant Past Accomplishments:

- Revised Project Execution Plan sent to HQ first week of March
- BNI & WRPS working to submit and integrated management/technical proposal for a one system approach to meet the "2020 vision for the WTP Project Transition to Operations"
- BNI completed the HLW Civil, Structural, and Architectural Title II Design Complete Contract Milestone on February 17, 2011
- Low Order Accumulation Model (LOAM) benchmarking tests for Non-Newtonian vessel configuration are complete.

Significant Planned Actions in the Next Six Months:

- There will be a mini Construction Project Review in March 2011
- A full Construction Project Review is scheduled for May 2011
- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration

- Erection of PT 4th tier structural steel (77ft to 98ft elevation)
- Commence Siding and Roofing of HLW Annex
- Complete vendor fabrication of the LAW Carbon Bed Adsorber (CBA)
- Complete the BOF water treatment facility

Issues:

No significant issues at this time.

WTP – Fiscal Year To-Date Performance

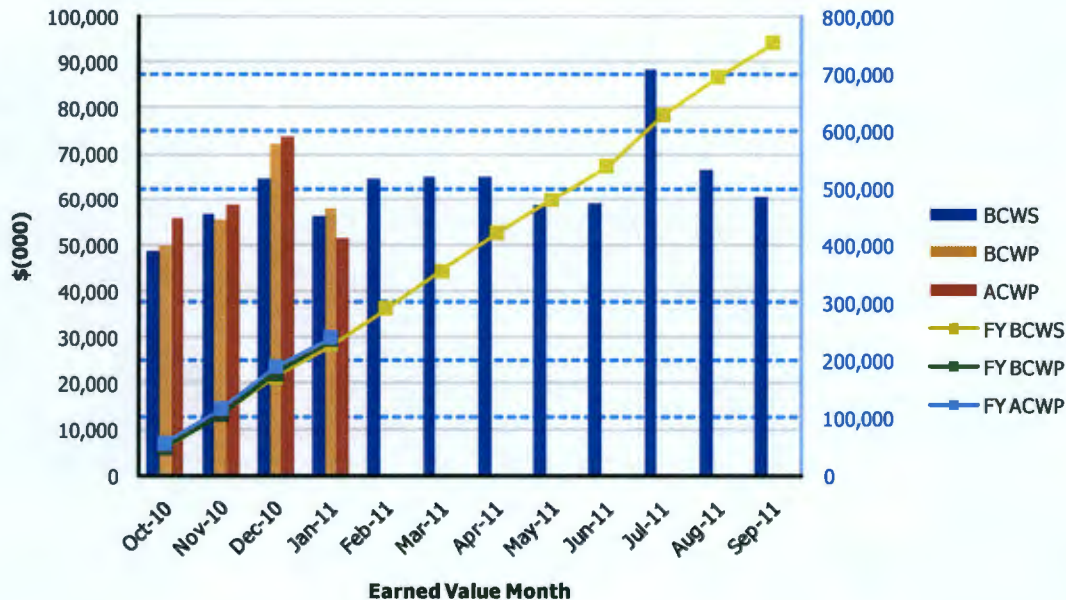
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: Jan 2011

River Protection 01-D-416 - Waste Treatment Plant (WTP) Project
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Monthly EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$48,550	\$49,962	\$55,880	1.03	0.89	\$48,550	\$49,962	\$55,880	1.03	0.89
Nov 2010	\$56,608	\$55,427	\$58,449	0.98	0.95	\$105,158	\$105,389	\$114,329	1.00	0.92
Dec 2010	\$64,533	\$71,852	\$73,610	1.11	0.98	\$169,691	\$177,241	\$187,939	1.04	0.94
Jan 2011	\$55,988	\$57,756	\$51,327	1.03	1.13	\$225,679	\$234,997	\$239,266	1.04	0.98
Feb 2011	\$64,495					\$290,174				
Mar 2011	\$64,996					\$355,170				
Apr 2011	\$64,783					\$419,954				
May 2011	\$58,696					\$478,649				
Jun 2011	\$59,092					\$537,742				
Jul 2011	\$88,480					\$626,221				
Aug 2011	\$66,582					\$692,803				
Sep 2011	\$60,343					\$753,146				
PTD	\$5,953,029	\$5,970,545	\$5,997,295	1.00	1.00					

Pretreatment (PT) Facility

D-00A-19, Complete Elevation 98' Concrete Floor Slab in PT Facility, Due: 12/31/2014,
Status: On Schedule

D-00A-13, Complete Installation of Pretreatment Feed Separation Vessels, Due:
12/31/2015, Status: On Schedule

D-00A-14, PT Facility Construction Substantially Complete, Due: 12/31/2017,
Status: On Schedule

D-00A-15, Start PT Facility Cold Commissioning, Due: 12/31/2018, Status: On Schedule

D-00A-16, PT Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

Significant Past Accomplishments:

The Pretreatment Facility (PT) will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Overall facility percent complete is 47%, engineering is 76% complete, procurement is 43% complete, and construction is 34% complete.

Overall construction continues to perform well. Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 77ft and 98ft elevation. Construction completions for the month of February include: placement of two 5th lift (77ft to 9-ft elevation) walls (5-25 and 5-31, ~160 CY), prefabrication of rebar curtains for three walls, installation of two Plant Wash and Disposal vessels, and fabrication and delivery of pipe spools in the hot cell.

On-going work includes: erection on the 4th tier structural steel on the northwest corner of the 77ft elevation, fireproofing, drain and process piping, cable trays and supports, and HVAC ductwork.

Engineering continues to implement changes from the technical issue resolutions into the P&ID drawings and other design documents. In February, PT engineering issued the Cesium Ion Exchange (CXP) system electrical wiring diagrams for construction, and issued the electrical grounding layout drawings for the 28ft elevation. In addition, one hundred and thirty electrical circuits were designed and eighty four electrical circuits were routed.

Material requisitions for quote on floor penetration offset assembly modules, plant wash and fluidic racks, and two safety flush vessels are issued.

Significant Planned Actions in the Next Six Months:

- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Complete planning for the Large Scale testing for the validation of vessel mixing Scale-up
- Issue the revised design option and P&ID's for the Process Vessel Vent System (PVV) and the Pretreatment Vessel Vent Process (PVP) system
- Complete the coupled dynamic analysis for the Waste Feed (FEP) and Treated Low (TLP) evaporators
- Complete fabrication of two major Jumper frames
- Complete placement of 1 slab, 2 basements, and 26 walls, totaling about ~6,200 CY
- Erection of 4th tier structural steel (77ft to 98ft elevation)
- Release four Solenoid Valve Utility Racks to Fabrication
- Fabricate and deliver 38 pipe spools, and begin fabrication on an additional 28 pipe spools.

Issues:

The PT vessel vent process (PVP) and vessel vent exhaust (PVV) systems are being upgraded from passive to active safety systems to maintain negative pressure during all normal and off-normal conditions (i.e., loss of site power [LOSP] or seismic design basis earthquake [DBE]). As part of the changes from the material-at-risk (MAR) accident analysis, the postulated aerosol loading was increased by order of magnitude. This is affecting PVV/PVPs ability to meet functional requirements during off-normal condition.

WTP is evaluating alternate strategies to resolve this issue that include reliance on current equipment performance, additional in-line filtration equipment, reduction of calculation conservatisms testing for aerosol generation rate, etc. The plan is to have a design decision by September 2011 to support equipment procurement.

Design and fabrication of vessel HLP-22, is the critical path for the PT Facility. Re-analysis and design modifications necessary to mitigate increased stress levels of vessels due to seismic and other dynamic load increases continue. The engineering analysis/drawings are scheduled to be completed by the end of April 2011. Efforts are also ongoing for the analysis of the on-site vessels in order to support the vessel modifications. The permitting strategy for the first group of on-site vessels to be modified has been developed jointly with Ecology. Initial site work and pre-modification preparation work has begun. Schedules for the vessel modifications and permit needs have been provided to Ecology for their resource planning. The current plan is to award the first set of vessels modifications by the end of April 2011. Permitting strategy for the off-site vessel modifications are under discussions with Ecology for finalizing.

The physical benchmark testing of the LOAM for application to the 5 non-Newtonian vessels is complete. The results of the testing are still under evaluation to determine the validity of LOAM for the 5 non-Newtonian vessels.

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: Jan 2011

River Protection 01-D-16E - Pretreatment Facility
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Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$10,196	\$12,179	\$13,730	1.19	0.89	\$10,196	\$12,179	\$13,730	1.19	0.89
Nov 2010	\$16,462	\$14,257	\$13,360	0.87	1.07	\$26,658	\$26,436	\$27,090	0.99	0.98
Dec 2010	\$12,060	\$14,788	\$14,869	1.23	0.99	\$38,718	\$41,224	\$41,959	1.06	0.98
Jan 2011	\$11,902	\$12,449	\$10,403	1.05	1.20	\$50,620	\$53,673	\$52,362	1.06	1.03
Feb 2011	\$18,023					\$68,643				
Mar 2011	\$21,614					\$90,256				
Apr 2011	\$25,435					\$115,691				
May 2011	\$17,988					\$133,679				
Jun 2011	\$20,895					\$154,574				
Jul 2011	\$31,672					\$186,246				
Aug 2011	\$20,486					\$206,732				
Sep 2011	\$18,585					\$225,317				
PTD	\$1,106,523	\$1,118,711	\$1,085,843	1.01	1.03					

High-Level Waste (HLW) Facility

D-00A-21, Complete Construction of Structural Steel to 37' in HLW Facility, Due: 12/31/2012, Status: On Schedule

D-00A-02, HLW Facility Construction Substantially Complete, Due: 12/31/2016, Status: On Schedule

D-00A-03, Start HLW Facility Cold Commissioning, Due: 6/30/2018, Status: On Schedule

D-00A-04, HLW Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

The High Level Waste (HLW) Facility will receive the separated high-level waste from the Pretreatment (PT) facility. The concentrate is blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 52% complete overall, with engineering design 85% complete, procurement 63% complete, and construction 32% complete.

Significant Past Accomplishments:

Since the transition of the Filter Cave from the procurement to the installation phase in January, C5V duct work continues as planned. Following the installation of the 60-inch diameter C5V supply header, a second 60-inch diameter header (for collecting the downstream exhaust of the C5V HEPA filters) was installed along the east wall in early February. Work continued this period on the west wall header with the alignment and installation of the 42-inch C5V duct expansion loop. With the completion of these major C5V components, installation of structural steel, pipe, and other components are available throughout the Filter Cave.

During the period BNI completed Civil, Structural, and Architectural Title II Design Complete Contract Milestone on February 17, 2011. DOE-WTP staff is currently in the process of validating the milestone deliverables and supporting information prior to approval of the milestone package.

In a major step toward the qualification and delivery of the WTP HEPA filter units, seismic qualification testing of the HEPA filter seals was successfully completed on February 22, 2011 and witnessed by Contractor and DOE-WTP staff.

Significant Planned Actions in the Next Six Months:

- Receive Initial Delivery of C5V HEPA Filter Housings
- Receive Canister Decontamination Vessels and Canister Rinse Vessel
- Set Shielded Personnel Access Door RWH-DOOR-20 in the Waste Drum Swabbing and Monitoring Area
- Complete Fabrication of C5V Dampers
- Commence Siding and Roofing of Annex

Issues:

Crane availability for Filter Cave component installation has been reduced. Construction Management conducted a "Safety Pause for Crane Awareness" at the WTP site on February 14, 2011. The Field Safety Assurance staff participated in a critique and root cause analysis for two recent crane incidents. Corrective actions included implementation of a series of three training courses for Signalmen, Bellmen, and Flaggers requiring personnel to pass both written and practical examinations. Until the corrective actions have been completed, more stringent restrictions for crane usage and swing paths have been implemented as a precautionary measure.

Delays in deliveries from the commodity vendors have resulted in increased coordination efforts, schedule re-sequencing, and order prioritizations in order to avoid impacting Construction. The Contractor is working to identify process improvements and enhance the interfacing in order to reduce potential future schedule delays.

The fabrication and delivery of HLW vessels is also being monitored closely. Vessel status and progress is reported weekly to ensure completion and delivery prior to the scheduled installation dates.

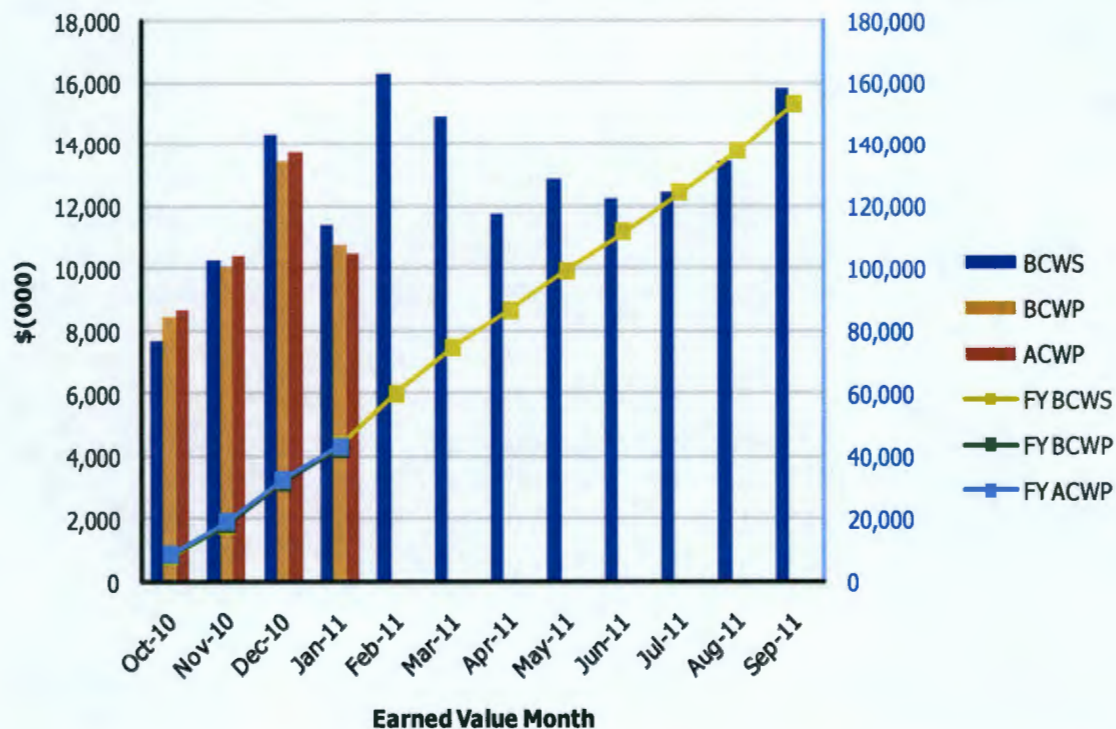
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: Jan 2011

River Protection 01-D-16D - High-Level Waste Facility
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Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$7,653	\$8,413	\$8,615	1.10	0.98	\$7,653	\$8,413	\$8,615	1.10	0.98
Nov 2010	\$10,239	\$10,032	\$10,434	0.98	0.96	\$17,892	\$18,445	\$19,049	1.03	0.97
Dec 2010	\$14,364	\$13,384	\$13,697	0.93	0.98	\$32,256	\$31,829	\$32,746	0.99	0.97
Jan 2011	\$11,360	\$10,767	\$10,461	0.95	1.03	\$43,616	\$42,596	\$43,207	0.98	0.99
Feb 2011	\$16,291					\$59,907				
Mar 2011	\$14,924					\$74,831				
Apr 2011	\$11,756					\$86,587				
May 2011	\$12,848					\$99,435				
Jun 2011	\$12,220					\$111,655				
Jul 2011	\$12,471					\$124,126				
Aug 2011	\$13,392					\$137,517				
Sep 2011	\$15,817					\$153,334				

PTD	\$738,036	\$741,812	\$732,334	1.01	1.01
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Low-Activity Waste (LAW) Facility

D-00A-07, LAW Facility Construction Substantially Complete, Due: 12/31/2014, Status: On Schedule

D-00A-08, Start LAW Facility Cold Commissioning, Due: 12/31/2018, Status: On Schedule

D-00A-09, LAW Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

Significant Past Accomplishments:

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel canisters that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 64%, engineering is 89%, procurement is 82%, and construction is 62%.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

- **Engineering**

BNI Engineering issued Controls and Instrumentation (C&I) data sheets for LAW safety radar level detection instruments and completed C&I design verification for the safety system requirements specification. Two confirmed calculations were issued: 1) *Purge Water Flow Rate and Supply Line Sizing*, and 2) *HVAC Heating and Cooling Load Calculations General Design Criteria*. The Component Information System (CIS) list was issued for the LAW concentrate receipt process (LCP) system. Engineering also issued control logic diagrams for the LAW ASX auto-sampling system and the container pour handling (LPH) system, all to support control software development. C&I software was developed for the LAW Carbon Dioxide Gas (CDG) system.

- **Procurement**

Procurement activities included release for vendor shipment of four melter lid cooling water pumps, two melter lid closed-loop heat exchangers, and several pressure regulators.

- **Construction**

During February, BNI completed electrical equipment installation in the LAW switchgear building, as well as Thermite welding of rails in the South finishing line. Construction activities were initiated for the installation of two finishing line doors. Thermite welding of rails in the

North finishing line continued, as well as installation of the ASX auto-sampling system, fire alarm system, medium voltage electrical buss ductwork, and two pumps for the primary off-gas process (LOP) system. Other normal activities continued, including installation of piping and hangers, cable tray, conduit and wiring, instrument enclosures, lighting fixtures, partition wall framing, gypsum wallboard, and perimeter sealants.

- Commissioning

Process steps associated with transferring waste from the Treated LAW Concentrate Vessel in the Pretreatment facility to the LAW Concentrate Receipt Vessels in the LAW facility were discussed and documentation of this process was prepared for review. Development continued on a draft schedule fragnet for LAW operations that includes typical batch transfer from the Pretreatment facility through processing and finishing of Immobilized Low-Activity Waste (ILAW) containers.

Significant Planned Actions in the Next Six Months:

- Complete installation of LAW personnel elevator
- Complete vendor fabrication of the Carbon Bed Adsorber (CBA)

Issues:

No major issues.

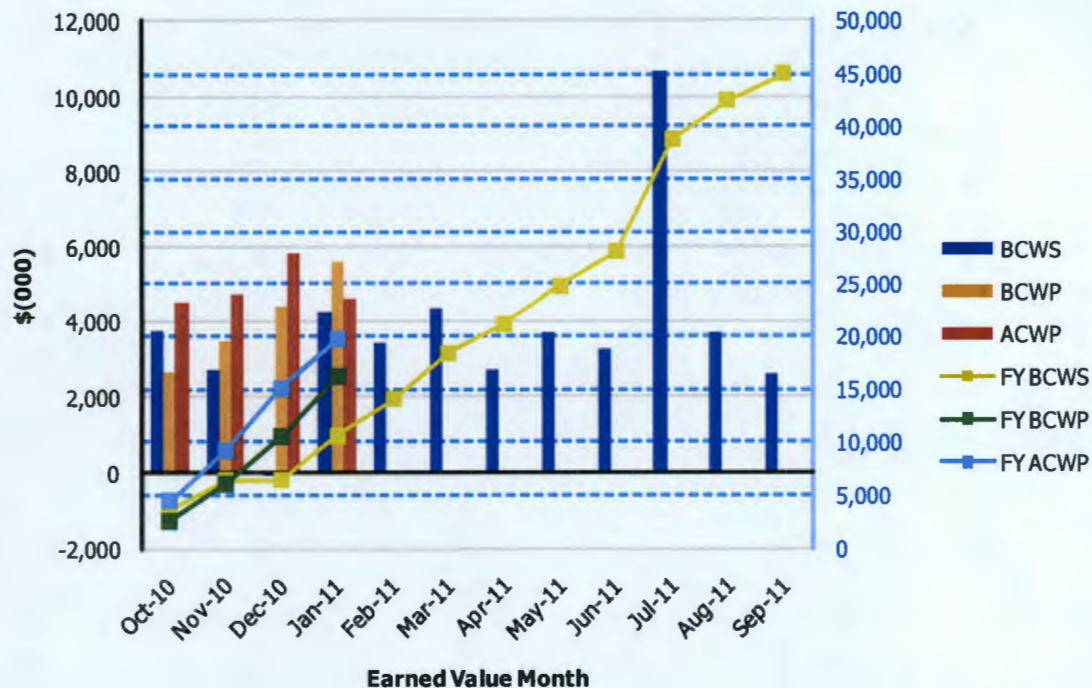
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: Jan 2011

River Protection 01-D-16A - Low-Activity Waste Facility
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Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$3,743	\$2,654	\$4,511	0.71	0.59	\$3,743	\$2,654	\$4,511	0.71	0.59
Nov 2010	\$2,732	\$3,462	\$4,752	1.27	0.73	\$6,475	\$6,116	\$9,263	0.94	0.66
Dec 2010	(\$84)	\$4,424	\$5,823	-52.67	0.76	\$6,391	\$10,540	\$15,086	1.65	0.70
Jan 2011	\$4,232	\$5,597	\$4,606	1.32	1.22	\$10,623	\$16,137	\$19,692	1.52	0.82
Feb 2011	\$3,440					\$14,063				
Mar 2011	\$4,325					\$18,388				
Apr 2011	\$2,725					\$21,113				
May 2011	\$3,698					\$24,811				
Jun 2011	\$3,260					\$28,071				
Jul 2011	\$10,689					\$38,760				
Aug 2011	\$3,690					\$42,450				
Sep 2011	\$2,610					\$45,059				
PTD	\$599,093	\$597,076	\$642,789	1.00	0.93					

Analytical Laboratory

D-00A-05, LAB Construction Substantially Complete, Due: 12/31/2012, Status: On Schedule

Significant Past Accomplishments:

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 46%, engineering is 80%, procurement is 74%, and construction is 64%.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

- **Engineering**

BNI engineering completed specifications for the high purity gas system and the architectural drawings for C5V system High-Efficiency Particulate Air (HEPA) filter ceiling.

- **Procurement**

BNI procurement released three Integrated Control Network enclosure controllers to ship and engineering workstation equipment ASX-SMPLR-00034 to ship for the autosampling (ASX) system.

- **Construction**

BNI construction began installation of the bogie shield door/waste drum transfer hatch. BNI construction continued installation of piping in the C2V/C3V system pits and shielding for the ASX system.

- **Commissioning**

An evaluation of potential high noise areas revealed two areas of concern: the HVAC rooms on the 2nd floor and rooms in the NW corner of the lab that house the ASX and Process Vacuum Air (PVA) systems, as well as C2, C3, and C5 fans and filters. Additionally, a draft report on data quality requirements for WTP feed acceptance (ICD-19) was distributed.

Significant Planned Actions in the Next Six Months:

- Install LAB waste drum bogie shield door
- Complete LAB C5 ventilation filter room ceiling design

Issues:

No major issues.

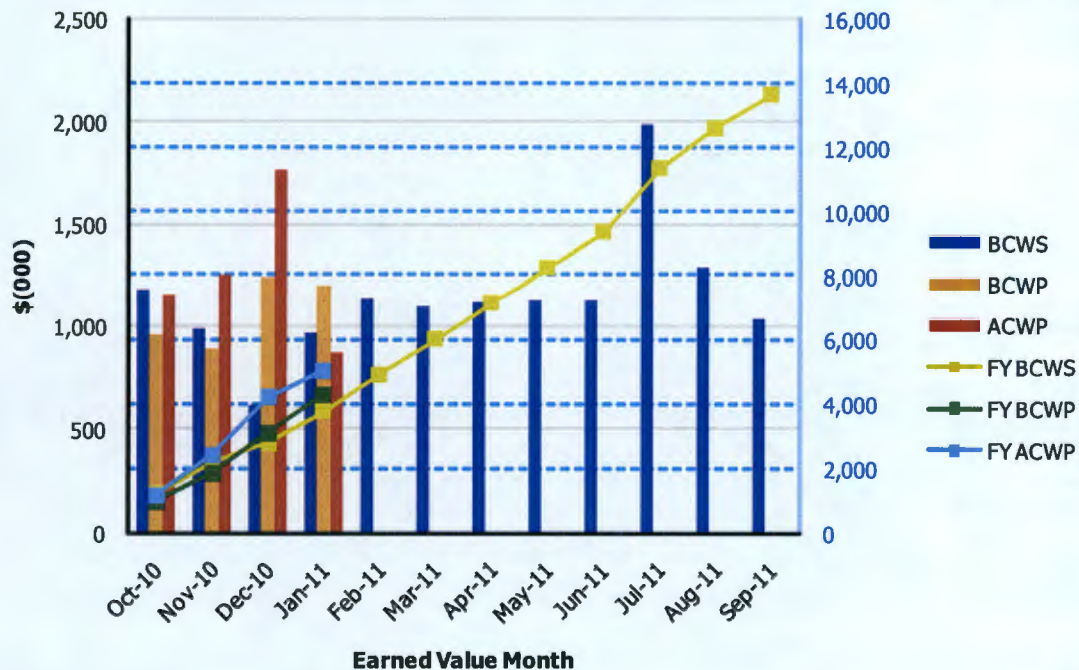
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: Jan 2011

River Protection 01-D-16B - Analytical Laboratory
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Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,180	\$954	\$1,152	0.81	0.83	\$1,180	\$954	\$1,152	0.81	0.83
Nov 2010	\$984	\$893	\$1,245	0.91	0.72	\$2,164	\$1,847	\$2,397	0.85	0.77
Dec 2010	\$621	\$1,236	\$1,768	1.99	0.70	\$2,785	\$3,083	\$4,165	1.11	0.74
Jan 2011	\$971	\$1,198	\$869	1.23	1.38	\$3,756	\$4,281	\$5,034	1.14	0.85
Feb 2011	\$1,137					\$4,893				
Mar 2011	\$1,096					\$5,990				
Apr 2011	\$1,116					\$7,106				
May 2011	\$1,128					\$8,233				
Jun 2011	\$1,125					\$9,358				
Jul 2011	\$1,986					\$11,344				
Aug 2011	\$1,289					\$12,632				
Sep 2011	\$1,038					\$13,670				
PTD	\$156,970	\$156,668	\$169,712	1.00	0.92					

Balance of Facilities (BOF)

D-00A-12, Steam Plant Construction Complete, Due: 12/31/2012, Status: On Schedule

Significant Past Accomplishments:

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. Overall facility percent complete for BOF is 46%, engineering is 76%, procurement is 46%, and construction is 60%.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

- **Engineering**

BNI Engineering issued a TCN for material testing/G321E clarifications for the ammonia storage pressure vessels.

- **Procurement**

The Emergency Diesel Generator (EDG) quote has been received and is being evaluated. The CO₂ vessel has been delivered. Material requisitions quotes were issued for venturi critical-flow piping and to purchase scald protection valves (piping specialty items). BNI issued Component Information System (CIS) equipment lists for the Ammonia Reagent (AMR) system.

- **Construction**

BNI construction continued installation of the fire alarm detection system in the T-52 Warehouse, performing pressure tests in the Water Treatment Facility (WTF), and working on the punch list of items for turnover of glass former control building. BNI construction completed installation of the reverse-osmosis skid/piping at the WTF.

- **Commissioning**

A review was performed of the CO₂ pelletizer ductwork from the reject hopper to the C3 ductwork.

Significant Planned Actions in the Next Six Months:

- Award EDG procurement
- Complete concrete placements for BOF Ammonia Facility
- Receive BOF ammonia vaporizer skid
- Complete water treatment facility

Issues:

No major issues.

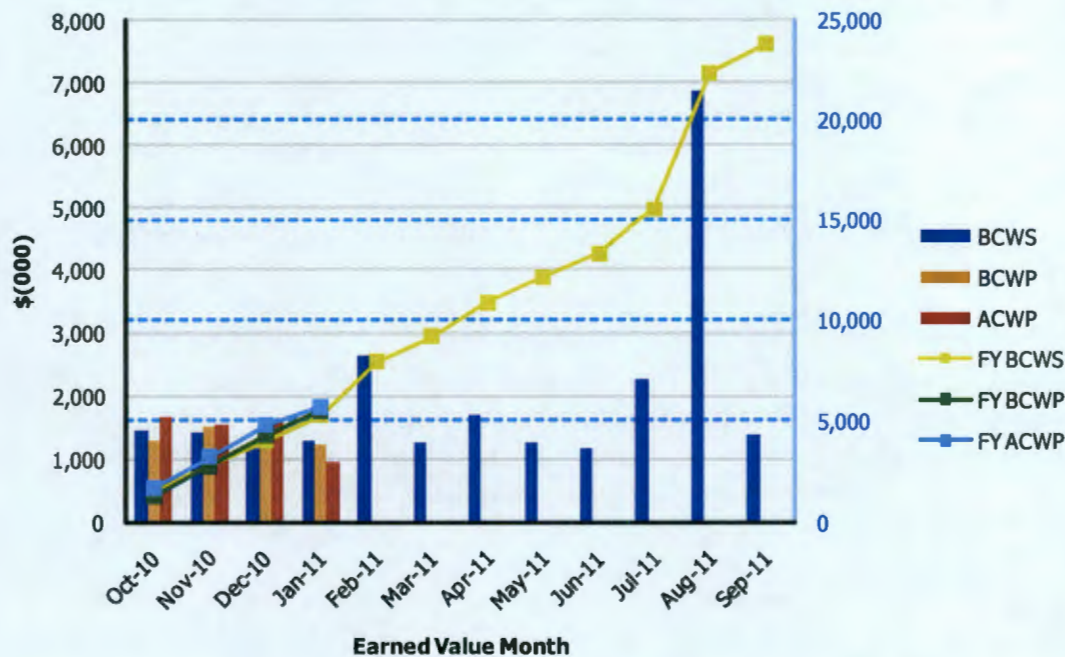
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: Jan 2011

River Protection 01-D-16C - Balance of Facilities
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Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,428	\$1,272	\$1,660	0.89	0.77	\$1,428	\$1,272	\$1,660	0.89	0.77
Nov 2010	\$1,398	\$1,520	\$1,539	1.09	0.99	\$2,826	\$2,792	\$3,199	0.99	0.87
Dec 2010	\$1,150	\$1,475	\$1,558	1.28	0.95	\$3,976	\$4,267	\$4,757	1.07	0.90
Jan 2011	\$1,302	\$1,224	\$960	0.94	1.28	\$5,278	\$5,491	\$5,717	1.04	0.96
Feb 2011	\$2,634					\$7,912				
Mar 2011	\$1,243					\$9,155				
Apr 2011	\$1,698					\$10,854				
May 2011	\$1,264					\$12,118				
Jun 2011	\$1,168					\$13,286				
Jul 2011	\$2,239					\$15,525				
Aug 2011	\$6,854					\$22,379				
Sep 2011	\$1,384					\$23,762				
PTD	\$240,471	\$239,857	\$237,631	1.00	1.01					

Waste Treatment Plant Project - Percent Complete Status

Through December 2010

(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Low-Activity Waste	924.8	591.5	64%	219.4	197.3	90%	233.3	187.5	80%	315.8	200.7	64%
Analytical Lab	343.2	155.5	45%	51.5	41.5	81%	56.9	41.3	73%	88.7	61.4	69%
Balance of Facilities	523.6	238.6	46%	69.4	58.7	85%	83.9	37.1	44%	226.6	134.8	60%
High-Level Waste	1,417.5	731.1	52%	328.1	283.1	86%	440.1	273.7	62%	523.4	170.2	33%
Pretreatment	2,446.7	1,106.3	47%	653.9	510.0	78%	708.0	297.2	42%	893.3	293.9	33%
Shared Services	4,768.9	3,089.9	65%	1,081.0	855.7	79%	470.2	330.7	70%	1,405.7	977.8	70%
Total WTP w/o UB	10,424.7	5,912.8	57%	2,403.3	1,946.3	81%	1,992.4	1,167.5	59%	3,453.5	1,838.7	53%
Undistributed Budget	65.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	10,490.4	5,912.8	56%	2,403.3	1,946.3	81%	1,992.4	1,167.5	59%	3,453.5	1,838.7	53%

Source: WTP Contract Performance Report

Note: In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.